

# Kauai Beach Resort

Lihue, Kauai



## Stand-Alone Capable Critical Infrastructure

Nestled on 25 breathtaking oceanfront acres on Kauai's eastern shore, Kauai Beach Resort (KBR) offers Hawaiian hospitality and excellent amenities and activities that embrace the island lifestyle. Adon designed and constructed a microgrid facility for KBR's waste-water treatment plant via a 20-year power purchase agreement. The microgrid consists of **450 kWh** LFP battery and Adon's Proprietary Energy Management System (EMS). The system kept the sewage pumping operations running despite the area being flooded severely and Kauai Island Utility Cooperative experiencing an extended blackout on March 28, 2020.



## Project Details:

### System Type:

- Carport
- Adon PowerBox Battery Storage System
- Adon Energy Management Systems (EMS)

### Battery/EMS Functions:

- Islanding/ Grid Forming - Direct site load transition on/off grid for added resiliency and protection against service outages
- Blackstart of large, inductive loads
- Dynamic control of AC coupled PV inverter output to allow PV production to match the load while also charging the battery even when in an "off-grid" operation
- Management of battery operation within PPA, battery warranty terms

